

Fleas at Lister Hall?

United Way gets a helping hand at sale.

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Prospecting for professors

Professors across the continent are retiring in droves. So how's a university to compete when everyone is hiring?

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Finding common ground

A Vietnamese activist searches for lessons from Sept. 11.

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students is supported by excellent infrastructure, including an internationally recognized insect collection, molecular biology service unit, extensive controlled-environment facilities.

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Escaped Atlantic salmon invading Pacific fisheries territory

Atlantic salmon are thriving in Pacific waters

By Phoebe Dey

Calling it an "ecological ratchet," Dr. John Volpe cautions that the introduction of Atlantic salmon in British Columbian waters years ago laid the foundation for a potential ecological disaster.

Volpe, a fisheries ecologist in the Faculty of Science at the University of Alberta, recently presented a report entitled "Super-un-Natural: Atlantic salmon in B.C. Waters" to the Leggatt Inquiry on salmon farming in B.C. The paper warns of the possible harm to the marine environment if salmon farming continues at its present pace.

In 1998, Volpe confirmed that Atlantic salmon, having escaped from B.C. salmon farms, had successfully reproduced in a Vancouver Island river. Multinational companies are capitalizing on a world-wide demand for salmon by growing Atlantics, deemed easier to farm than native Pacific species, in open-net cages along the B.C. coast. Young salmon are reared in fresh-water hatcheries and then moved to sea cages to be grown to market size.

"When Atlantic salmon were first imported to B.C. in 1984, there were a series of assurances from the provincial and federal governments that the salmon wouldn't be able to escape and if they did, they wouldn't survive or reproduce," said Volpe, whose report was published by the David Suzuki Foundation. "Before long, the Atlantic salmon started showing up in commercial fishing nets – that was the first knock against the assurances because obviously they escaped and they're obviously surviving."

Soon Atlantic salmon appeared in Alaska and juveniles started emerging as well – a sign that the species was staking out new territory and reproducing. The government then offered more assurances, said Volpe, saying some of the fish would spawn but that the steel-



Dr. John Volpe has discovered that Atlantic salmon raised in West Coast fish farms have escaped into the wilds. The more aggressive Atlantic have been taking territory away from native breeds.

head salmon native to the area are territorial and would not allow the Atlantic salmon to survive. Research has now shown that assumption to be false, he said.

"It all comes down to who has the knowledge of the 'worthiness' of the territory," said Volpe. "The more worthy the territory, the more vigorously the challenger will fight. And the Pacific steelhead is naïve. It has no idea about the value of the habitat and it will back down."

"As these Atlantic salmon colonize these rivers, they are taking up

space. It's an ecological ratchet. Every time a square metre is turned over to the Atlantic salmon, that square metre is not available to the Pacific steelhead – they've lost their habitat."

While researchers don't know the exact effects of Atlantic salmon on native Pacific salmon, Volpe cites a recent United Nations' assertion that declared the introduction of exotic species the greatest threat to global biodiversity, second only to habitat loss. The second-place ranking is misleading considering habitat loss is itself a major effect of invasive species, said

– Dr. John Volpe

"Dr. Volpe's ground-breaking research has only been achieved through relentless personal effort. Clearly, more research is needed on the ecological effects of the salmon aquaculture industry, a point eloquently made by Dr. Volpe."

– Jim Fulton, executive director of the David Suzuki Foundation

Volpe, who also questions the economic rationale that salmon farming is good for B.C.

"There is a huge potential for transfer of disease and parasites in salmon farms as antibiotics, uneaten food pellets, feces and toxic anti-foulants flow out of the nets and contaminate the area," he said. "These coastal communities are in economic trouble and are hanging on by a thread. The potential for trouble is right there, but it's a really prickly area of research because it's highly politically charged. We'll keep working on it and in a few years we should be able to predict the ramifications of this situation."

Jim Fulton, executive director of the David Suzuki Foundation, applauds Volpe's persistence, despite the politics surrounding the issue.

"Dr. Volpe's ground-breaking research has only been achieved through relentless personal effort," said Fulton. "Clearly, more research is needed on the ecological effects of the salmon aquaculture industry, a point eloquently made by Dr. Volpe." ■

Flea market draws support for United Way

Campaign's closing in on target

By Jon Dunbar

Normally, fleas in Lister Hall would be cause for concern, but this flea is sending its profits to the United Way.

A flea market was held in the student residence Oct. 12. Bargain hunters were attracted by the chance to root through vintage clothing, patio furniture, dinnerware, and mountains of stuffed animals, donated by university staff and Aramark, the university's food contractor.

This year, the total profit brought in by the flea market was more than \$1,100 after just 2-1/2 hours. Wendy Saunders, the organizer of the flea market and office manager of housing and food services, expressed some astonishment at the figure, admitting she was expecting to raise around \$500 during the event.

She also mentioned that the items left over from the flea market will go to the Canadian Diabetic Association.

Last year, organizers held a silent auction, which raised approximately \$300, but didn't attract nearly as many students.

"People were intimidated because they asked for donations, and they thought they had to donate only new stuff," explained Saunders. This year's event was planned on a larger scale and with cross-campus advertising, a large number of faculty members, support staff, and students browsed the tables.

"I've never experienced a flea market, and I'd like to know what that's about," said Cynthia Wong, an exchange student from Hong Kong who's in her second year of a criminology program. "I don't have anything special to buy, but I wanted to look around to see what I need, because I've never been through an Alberta winter."

Others came for the charity. "It's an added incentive that we're helping a good cause," said second-year science student Sam Weller.

Upcoming fund-raising events include the charity pumpkin sale in HUB Mall on Oct. 25 - 26. Also, the Bookstore in SUB will be holding a book fair from Oct. 25 - Nov. 25, and Aramark will be teaming up with the Physical Education and Recreation department for Super Sub Day on Nov. 7, when you can buy a pop and a foot-long sub for just \$4.75.

During the U of A's Breakfast of Champions October 11, the university handed over a giant novelty-sized cheque for \$250,000 to the United Way campaign. The cheque is a down payment for the



Student Cynthia Wong browses through the goods on sale at a flea market held at Lister Hall. Proceeds from the sale went to the United Way.

university's total donation, which will add up to \$375,000.

This year's U of A United Way campaign started Sept. 29 with the 42nd annual Turkey Trot, which had more than 1,200 participants. The Delta Gamma fraternity held its annual Anchor Splash event recently. Although the event's main benefactors are programs for the visually

impaired, the fraternity decided to send its philanthropic earnings to the United Way campaign, and earmarked it for the American Red Cross in response to the terrorist attacks of Sept. 11.

Last year, United Way's campaign generated a record \$12 million. Money donated to United Way is invested into other charitable agencies seeking funding. ■

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NSERC unveils new nanotechnology fund

Council casting wide net to encourage research

By Richard Cairney

A new \$1-million fund has been established to encourage Canadian researchers to apply nanotechnology applications in their own projects.

The fund was unveiled at the University of Alberta last week, during a meeting of the Natural Sciences and Engineering Research Council. NSERC director Dr. Tom Brzustowski announced the NSERC "innovation platform" in nanotechnology. It was no accident that the plan was made public at the U of A, where the National Research Council's National Institute of Nanotechnology is to be located.

"You've already got the core activities that attracted the National Institute of Technology here," he said. "We want to see a close partnership between this centre and our Innovation platform. It may be necessary for our director to spend a good deal of time here."

Brzustowski said that, with the development of the new centre, it's important to encourage research in nanoscience. But doing so requires a different approach

because of nanotechnology's interdisciplinary nature.

"In nanotechnology and nanoscience there isn't a single discipline. It includes physicists, biologists, chemists, mathematicians - you name it," said Brzustowski.

NSERC may simply attach a new section to its grant application forms asking researchers across the country if they think their work could also "advance the goals" of nanotechnology in Canada, if they'd permit their application to be reviewed by council's new nanotechnology innovation platform.

The plan is simple, it casts a net wide enough to include all NSERC grant applicants, and it avoids the creation of a new application system for nanotechnology.

"Researchers already spend enough time filling out grant applications. We don't want to burden them with a more administrative, bureaucratic workload. This is totally inclusive and selective," said Brzustowski. ■

NSERC has launched a search for a staff member to lead the nanotechnology innovation platform. Funding will be available next year.

Brzustowski announced the initiative at a luncheon held to honour U of A researchers who have received NSERC awards. To that end, the U of A is Canada's undisputed leader, with more Steacie Fellowship recipients than any other Canadian university (The U of A has 22, the University of Western Ontario is second with 17); Dr. David Schindler, a world leading environmental scientist earned the NSERC Award of Excellence in 2000. Brzustowski singled out Steacie Fellowship winners Simaan AbouRizk, Wayne Grover, Jed Harrison, Chris Le, Mark Freeman, Jonathan Schaeffer, Ole Hindsgaul and Norman Beaulieu, as well as NSERC Doctoral Prize winners Janet Elliott and Alexander Wolfe.

"For a long time we were only giving out four Steacie Awards a year across Canada, and year after year the U of A always got one, except there was one exception," said Brzustowski. "The exception was when they got two, so we figured we'd have to increase the number to six a year." ■

New look for Talks & Events

Readers will notice a change in the way Folio delivers information on talks and events at the University of Alberta.

Starting this week, listings for Talks and Events will be rolled into a single category with events listed by date. With bold type indicating the faculty or department hosting an event, these changes should make it easier for readers to plan their attendance at everything from lectures to concerts.

The change also allows ExpressNews, the U of A's electronic news service

(www.ualberta.ca/ExpressNews/) to provide a more comprehensive, day-to-day listing of events at the U of A.

If you have talks or events you'd like listed in Folio or ExpressNews, e-mail them to Cora Doucette at cora.doucette@ualberta.ca. Deadline for Folio is 9 a.m. one week prior to publication.

If you have questions or comments about the format change please direct them to Folio editor Richard Cairney at richard.cairney@ualberta.ca. ■

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How do you hire 300 professors?

Universities struggling in hot job market

By Jacqueline Janelle

"It's a wonderful time to be a graduate student," said Brad Wuetherick, president of the University of Alberta Graduate Students' Association. "In some disciplines people are finishing Master's or PhD programs and there is a job waiting for them the second they step out!"

Academic job prospects haven't been this rosy in 30 years. Universities across North America are facing a steady stream of retiring academics: the women and men hired during the 1960s to teach the post-war baby boom generation are now reaching the end of their tenure and are leaving campuses in record numbers, vacating research labs and classrooms.

But employment bonanza can mean institutional grief. The University of Alberta estimates it will need to fill approximately 300 faculty positions during the next five years. It will require another 30 professionals to fill new positions.

The current turnover rate at the U of A is typical of the changes facing most North American schools; this has created an intensely competitive marketplace for top-quality researchers. Many of the larger U.S. universities are pulling out the big guns — perks and higher salaries — to lure Canadian academics south. But Dr. Doug Owram, Provost and Vice-President (Academic), says a little forethought

"That allowed us to do two things: it allowed us to get into the market early, when other universities were still largely in cutback or stagnant mode, and hire some really good faculty. Secondly, it allowed us to do a little demographics moving, which means you try not to hire everybody at the same time so that they are not all the same age. Then you won't face a rank of similarly-aged similarly-ranked professors — all at the same stage of their career."

— Doug Owram, Provost and Vice President (Academic)

means that prospects are far from bleak for the U of A. "We looked at the demographics and could see this coming, not just for the U of A but for universities in general. Five years ago we began a retirement program, which encouraged faculty to retire early if they wished.

"That allowed us to do two things: it allowed us to get into the market early, when other universities were still largely in cutback or stagnant mode, and hire some really good faculty. Secondly, it allowed us to do a little demographics moving, which means you try not to hire everybody at the same time so that they are not all the same age. Then you won't face a rank of similarly-aged similarly-ranked professors — all at the same stage of their career."

Getting a head start did not alleviate all difficulties, Owram says. In some fields qualified people are so scarce that it's essentially impossible to hire faculty. The U of A's commitment not to settle for "second-stringers" has meant some positions have sat empty for two to three years — leading to part-time or "fill-in" appointments in the classroom.

This worries Wuetherick, who says the university must meet the needs of its students. While he appreciates and supports the imperative to maintain academic excellence among faculty, he is concerned that the sustained staff shortages

could lead to a dearth of course diversity, especially at the undergraduate level. He adds that the current rate of turnover is causing some problems among graduate students. "A lot of graduate students are getting caught with people retiring in the middle of their programs, and others are being caught with young faculty that haven't supervised graduate students before, and they are running into some growing pains."

Even when the university does find the

right person for a position, the costs of enticing them to Edmonton have escalated. "We've had to be fairly aggressive in our recruitment packages," said Owram, "in particular in the lab sciences. It's often a question of equipment; people want the equipment to do their research. They're brand-new PhDs and they want to know they can start up right away. We've been trying to provide some faculties with \$50,000 to \$75,000 for each new recruit, for lab equipment. That's been helpful, often that can sell a person."

Salary also plays a part in the decision-making process. Fran Trehearne, Associate Vice-President (Human Resources), says the university has been making a determined effort to climb back up the salary scale after taking a serious tumble through the 1990s. According to Statistics Canada, salaries at the U of A in 2000-2001 were eighth among schools that responded to their survey, with a minimum faculty salary of \$45,374. In 1999-2000 the U of A placed ninth, up from 20th place in 1998-1999. "There is no ceiling on the full-professor scale," added Trehearne. "Full professors can continue to earn increments

for meritorious performance until they retire, without limit."

The university also offers "market supplements" — bonuses paid on top of an academic's salary — to entice new faculty further north. But that practice is causing dissension within the professorial ranks. "It's having a sharply negative effect," said Don Carmichael, president of the AAS:UA.

"People tend to care about money when it's getting rubbed at them some way. It's being rubbed at us now in two ways:

our pay scales are well behind those of our relevant competitors — whether it's McMaster or Waterloo. The continuing staff took substantial pay cuts during the 1990s. The expectation was that when there was more money the situation would

be rectified. A much larger issue, though, is with our pay scales as they are, the university cannot hire the people it wants. So they are using 'special' funds to increase the salaries of those they want to recruit and paying 'special' salaries to others in order to keep them here."

Carmichael says the AAS:UA is seeing increased reliance on two pay schemes. The first involves annual reviews in which professors are evaluated on their performance by their peers and given an increment accordingly. "That's what we're used to. It's got capital letters 'MERIT' written all over it," said Carmichael. The second scheme involves what he calls "special deals" compensation that has more to do with market considerations than academic accomplishment.

Trehearne argues that without such supplements, "certain disciplines would not be present in our university." He says the U of A introduced market supplements "with the full involvement of the AAS:UA" in 1967. The idea behind the

market supplements is to compensate for lost professional earnings and to alleviate "the limitations in the rank-based salary scales." He adds that every research-intensive university across the country offers similar compensation to professionals in high-demand disciplines. Last year the university paid almost \$4.5 million in market supplements to 21.6 per cent of the faculty.

Owram is adamant that the U of A must maintain its standard of excellence. Offering packages that compete with the bigger schools is necessary not only to attract quality faculty but also to keep them. The university needs to ensure it doesn't allow staff to be lured away to other universities. "I think that we are now going to talk about 'retention' and 'recruitment' in that order," said Owram.

This isn't solely about doling out big bucks. The quality of academic life and the quality of colleagues are the primary factors in recruiting and retaining faculty, says Trehearne. "Salary is secondary."

Owram agrees. "We have to make [academics] want to be here, making sure that [faculty] are supported in getting research grants, getting the kind of graduate students they need, getting the equipment they need, and

so on." He admits that location is often a hindrance when professional couples are looking at Edmonton as a possible home. But he's quick to add that geographic isolation is a small factor when compared to the reputation and quality of research already going on here. "The trick is to remain competitive overall."■

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— Don Carmichael, President, AAS:UA

Understanding the culture of terrorism

Jailed activist defines middle ground in global community

By Bev Rudolfsen

When Dr. Doan Viet Hoat emerged from 20 years in captivity, he was met by a changed world, a global community teeming with possibilities but also heavy with potential for disaster.

The terrorist attacks on the United States which left more than 6,000 people dead Sept. 11 are a symptom of a global community that is off balance, Dr. Doan said during an address on the culture of terrorism Monday evening in the Humanities Building. Hosted by the University of Alberta International Centre and the Vietnamese Centre for Democracy and Human Rights (Edmonton chapter), the renowned democracy activist called on people of the western world to strive for a higher goal than materialism. Since being released from prison three years ago and deported to the United States from Vietnam, Doan has traveled the world and found it both exhilarating and frightening.

"I have found a completely new world which is very dynamic, full of mobility," he said. High technology has eliminated many barriers, "but this has caused both good and evil," he noted. Whether it can unite people is a crucial question, he added. Global connections bring people of different cultures and backgrounds into contact – or into conflict.

"This event (of Sept. 11) left all of us asking 'will these horrible acts mark the end of the global society?' The answer for me is somewhere in between."

Doan has paid a high price for his fervent belief in democracy and in human rights. He spent his early years as a high school English teacher in the US and in

1971 completed a PhD, specializing in higher education. He built his dissertation on that area of study and returned to Vietnam, where life had begun to alter radically during the 1970s. He became actively involved in the democratic movement and in 1976 was arrested and imprisoned, without charge. He languished behind bars until 1988 when he was released. In 1990 he was again arrested, charged with promoting human rights and democracy for Vietnam. He was sentenced to serve 20 years, but that was shortened to 15 years after an international appeal was launched. In 1998 he was deported to the US. He became a scholar in residence and co-director of the Project for a Civil Society in Southeast Asia, based at the Columbus School of Law, Catholic University of America, in Washington, D.C.

The terrorism that shook North America and other westernized nations Sept. 11 pose a complex problem, he said. "The terrible disaster awakens us to a terrible dilemma of global life in our time. One single man living in a cave could cause death to millions in a very modern city." But he urged people to view the tragedy in a positive way. "The first reaction is to disapprove, but that is not enough."

Security measures are important, but retaliation is only a temporary solution, he believes. "These measures are still more negative than positive."

The roots of dissatisfaction and the anger it breeds are based on cultural and social differences, he said. "The culture of terrorism is a culture that values the accumulation of wealth...and not humanness. It

must be dealt with culturally and morally. Mutual respect...must prevail."

He suggested that a new framework for economic development needs to be created to include all parts of the world. Free trade and all the trappings of a materialistic global economy only work for the one side of the world where that is what is culturally valued. Wealthy nations must temper their wants, asking instead what they need, he said. It is a question of material versus moral improvement.

"We need to stress more on the necessities rather than the benefits." An international tax on wealthy corporations could help equalize economic imbalance around the globe, he suggested. The East and West need to learn to view one another as humans first, to make the world a safer, fairer place to co-exist, he added. "I strongly believe humanity will overcome all problems if we work together as human beings, no matter what our differences might be."

Doan believes the people of the world have enough in common to co-exist in peace. "What draws us together? We are all human beings and human beings have a common nature, a human way of life. Human values must be clarified. Humanness should be reflected in national and international institutions and relations."

Education and exchange programs can help accomplish that goal, along with tourism that takes people into different countries to shake hands with the locals, he said. Academics and the media also play a role in heightening awareness of the outside world, he added.



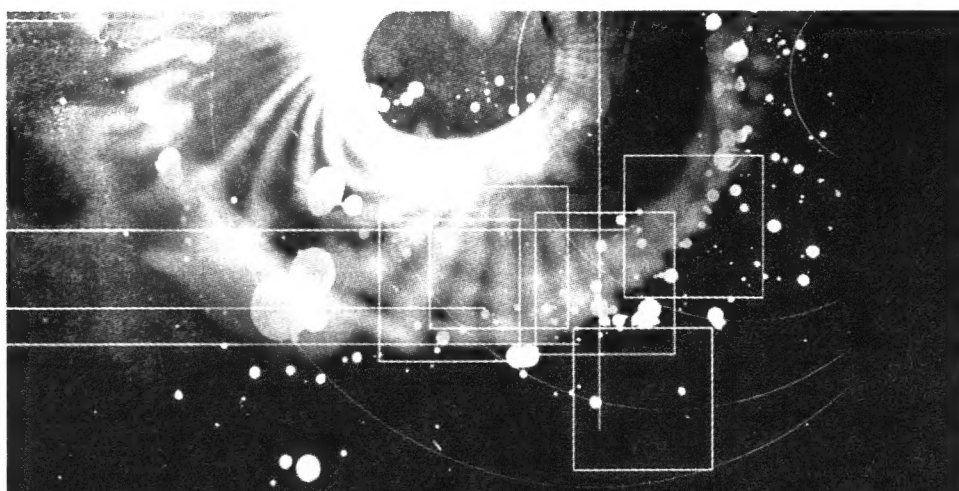
Dr. Doan Viet Hoat addressed a U of A audience on the culture of terrorism.

"The media has not paid enough attention to the problems of developing countries, to the problems of Arab countries."

Spending years in unjust imprisonment gave him a personal strength that westerners can find for themselves, he said. He turned to his religion of Buddhism for strength and serenity.

"Pressure is one of the big problems of the West. When I was put in jail, even when I wanted to move on, I couldn't. I had to find a way to move on...as a way to deal with human life properly."

He focused on his needs, not his wants, and it's a profound lesson everyone can learn from. "The problem is not that you don't need a car. It is that you want too many cars. Everybody has the same needs, Easterners or Westerners." ■



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Museum friends, disabilities researcher honoured at AGM

Meeting draws 400 high school students

By Ryan Smith

University of Alberta officials put on their good suits and dresses and presented the U of A state of affairs at the Annual General Meeting, held at the Shaw Conference Centre in downtown Edmonton Oct. 11.

The crowd of about 900 included officials from all levels of government and more than 400 of northern Alberta's top high school students and their teachers.

The meeting included the annual presentation of the U of A Board of Governors' Awards of Distinction, presented this year to the Friends of the U of A Museums, a not-for-profit society, and to Dr. Richard Sobsey, director of the U of A J.P. Das Disabilities Centre.

"We have about 65 dedicated volunteers who work to raise money to support and promote the U of A Museums and Collections," said Georgiana Brooks, president of the society. "The U of A is often seen as an insular community, but we want to get the public interested in the U of A museums because they have so much to offer."

In September, the society was also honoured with Museums Alberta's Recognition of Contribution Award. "We don't go into these things to win awards, so we're always surprised but gratified when we do."

In presenting Sobsey with his award, U of A Board of Governors Chair Eric Newell praised him for "his tireless volunteer work towards protecting people with disabilities from violence and neglect and strengthening family and community support systems."

"When I started in this field I was interested in human rights in general – racism and that sort of thing. But as I got involved, I became more and more interested in the rights of people with severe disabilities, because more often than not they're the ones who can't speak up for themselves," Sobsey said.

After Sobsey and the Friends of the U of A Museums were honoured, U of A President Dr. Rod Fraser delivered his own message.

"Despite our pride and our sense of celebration this morning, I believe that the emotions we have felt since September 11th are not far beneath the surface. Our achievements of the past year, and, even more importantly, the directions our university will take in the years to come, must be considered in the light of those massive terrorist attacks and the unfolding aftermath," Fraser said.

We are attracting the best and the brightest from wherever they are – and they come – because we offer our students and staff a tolerant, internationally vibrant learning community that is encouraged and supported in our quest to learn whatsoever things are true, he added.

"Of the number of important strategic initiatives under way at the University of Alberta, a critical one is our commitment to provide each and every student with a significant international learning experience...We will continue to challenge our young people to become thoughtful, educated, well-rounded leaders – the leaders required for tomorrow's society." ■

Queen Mother a brilliant purveyor of symbols

By Isobel Grundy

The Queen Mother is 101 years old. Having spent her life purveying symbolic meaning of various kinds, she now symbolizes survival, defying the media folk who wait in the wings with obituaries.

When an old lady recovers in the nick of time to celebrate her hundred-and-first birthday, only one human response is possible: to hope she will live to celebrate her hundred-and-second. So what else is there to say? And why should Folio ask a professor of English to say it? The reasons must have little to do with the royal family's professional involvement with symbolic meaning and everything to do with the fact that this particular professor is British as well as Canadian, and still has the accent to prove it.

The present Queen Mother, born Elizabeth Bowes-Lyon, comes not only from that foreign country called the past, but also from the distant country of Britain, or rather Scotland. The name commemorates a marriage in 1767 between a Scotsman, John Lyon, Earl of Strathmore, and an Englishwoman, the middle-class Mary Eleanor Bowes, whose family had got rich on coal-mining (and cartel-building and price-fixing). Mary Eleanor had five children and went on to publish both a highflown blank-verse tragedy and a page-turning confessional account of her second husband's abusive behaviour.

The Queen Mother has never shown signs of becoming a royal author (something that, Virginia Woolf speculated, might spell the end of the monarchy).



Her Royal Highness: playing many roles over the years, with aplomb.

Indeed, she appears not to take after those two particular ancestors any more than after her other thirty-odd presumed ancestors of the same vintage. But think royal family, and you naturally think genealogy.

No one approaches royalty with an open mind. Political positions jostle for allegiance, monarchist or anti-monarchist. The Queen Mother's great popularity, even personal devotion, has not stemmed chiefly from actions of her own. The high moments in her approval ratings have been triggered by things beyond her control: her beauty; her brother-in-law's abdication, which made her queen; the bombing of Buckingham Palace in 1941, which allowed her to claim common humanity with her subjects; the skid which made her horse Devon Loch lose the Grand National when it was apparently in the bag, which let her shine as a gallant loser. And now her age.

On her ninety-ninth birthday, a woman exactly one year older made a journey by rail to London to wish her well and to assure her, like a loving, protective elder sister, that next year would be even better. "It's a really special feeling, turning a hundred." Of course the family surrogate or archetype is what royalty and other celebrities are there to provide. This was well understood by the Saskatchewan girl who, on Prince Charles's recent visit to the prairies, stood flourishing a placard reading, "HERE IS YOUR FUTURE DAUGHTER-IN-LAW!"

The Queen Mother was a hit on the prairies, too, just before the Second World War. She is a hit with most people - with students, for example, during her time as chancellor of London University for most of the years I taught there. (The chancellorship of London, unlike that of Alberta, has no fixed term.) Her portrait, in full academic rig, hung right in the hallway opposite the elevators in the university's Senate House. Her university speeches, said to be written by herself, generally included the phrase "We at the Senate House," conveying an impression of her putting in nine-to-five days there. She

always remembered that London was the first British university to admit women. She was a chancellor in the same style, if not with quite the same panache, as our own Lois Hole. What more can I say?

She has now outlived many of her warmest fans. (One of my own aunts was representative: she would defend this or that social practice - wearing blue and green together, for instance - by saying it must be all right because the Queen Mother did it.) Today she is often lampooned in the British press (the most independent and the best-written papers, too) as being spoiled and out of date, snobbish and racist - judged, that is, by values not current till she was already middle-aged. In this country anti-monarchism is not so beleaguered as to need to stoop to that.

Her contribution to history was to strengthen her husband for his role as George VI (which much-informed opinion at the time of his accession had supposed entirely beyond him), thereby prolonging the surprising resilience of the monarchy - and thus, perhaps, working against developments that might have led by now to President Chrétien.

But history can look after itself. It is as purveyor of symbols that she has brilliantly succeeded. She has starred in all the great nostalgic roles: fairy-tale princess, gallant helpmeet, and now the tough old woman unafraid of shocking the children. I for one hope those obituaries are long delayed. ■

Simpson stirs up medicare debate

Canadians revere public health system

By Gilbert A. Bouchard

Despite growing dissatisfaction with the status quo, neither the Canadian public nor its politicians are ready for a serious debate about the national medical system, says Jeffrey Simpson.

In Edmonton recently to deliver the annual University of Alberta Walter C. Mackenzie Memorial Lecture, the *Globe and Mail's* Ottawa Bureau Chief said the iconic status of medicare and of the Canada Health Act prevents any real debate at the moment despite the fact that the system "must change" if Canada is to continue to have a viable and affordable health system.

"We have a whole generation that has come of age and known no other system," he said, noting that the reverence most Canadians hold our medical system "makes it hard to change" that system regardless of the need.

Complicating matters further, Simpson noted that most Canadians discuss medical issues as if there were only two options: a duality with Canada's public system status quo at one end and the American private health care model at the

other. This view horribly skews the debate since these two models are at "polar extremes," and it prevents "out of the box thinking" that would embrace other models and medical delivery models undertaken in other countries in Europe and in Australia.

Despite study after study that show a steady and fearful increase in medical expenditures that endangers other public spending, Simpson said politicians across the nations are still too timid to vocalize their fears directly. Some of them are speaking carefully of their concerns, using terms like sustainability, but none of them can bring themselves to call for whole scale changes to the status quo.

"It (medical spending) has been likened to an elephant with a ravenous appetite in the middle of the tent. The elephant is steadily growing, while the tent doesn't."

According to Simpson, democratic action on public issues follows certain stages and necessitates the public accepting an issue exists before solutions can be outlined and a debate on what action to

undertake can begin.

"We're very early in the process—we're on the road to having a discussion, but we haven't reached the crossroads yet."

Given that all political issues involve some kind of trade-off, Simpson predicts the public will recognize action needs to be taken about medical system spending when they realize that funding for medical needs is starving out other areas of public spending that impact their quality of life directly.

Stressing that the American system should not be taken as a model given its "unfair" and socially "unjust nature", Simpson suggested other options that might be explored would include: co-payments, user fees and other financing sources; a specially dedicated income tax (which Ontario already has a form of called the Fair Share Health Levy); the expansion of the system to cover other medically related services aside from doctor and hospital fees; and the development of a parallel private system or private services within the public system.

"A debate (about the medical system) will eventually happen," he concluded. "At this time though, neither the public nor its political actors are ready to discuss these matters. It will be a while yet before we reach the crossroads." ■

folio letters to the editor

Intellectuals must speak, but we need to listen carefully

Editor, *Folio*

On Jerry Kachur's statement that as intellectuals we must *speak* (re: *Responding to 9-11*, Oct 5, 2001), I am reminded of Joseph Stalin's quote: "Education is a weapon whose effects depend on who holds it in his hands and at whom it is aimed."

I would be very careful of intellectuals and their "speaking."

Yoke-Sum Wong
PhD candidate
sociology

folio letters to the editor

Folio welcomes letters to the editor. Send your thoughts and opinions via e-mail to richard.cairney@ualberta.ca, fax at 492-2997, or by mail to Folio, Office of Public Affairs, 6th floor General Services Building, Edmonton, Alberta T6G 2H1. Letters may be edited for grammar, style, accuracy and length.

McCalla Professorship recipients pursue diverse studies

Researchers receive special grants to continue their work

What does it mean when people say they “can’t” exercise three times per week? How effective is elk velvet antler in treating rheumatoid arthritis? If you were required to pay a toll to drive to work, would you take a bus instead? These are some of the areas of study being investigated by recipients of this year’s McCalla Professorships. A total of 14 University of Alberta professors have earned the professorships this year. Part of the U of A’s endowment fund for the future and named after the first dean of the Faculty of Graduate Studies and Research, the professorships provide for release time from teaching duties for a nine-month period. Faculty members have an opportunity to further their research and scholarly activities. These individuals, nominated by their faculty, are outstanding academics who have made significant contributions to their field of research.

The following is a summary of the work being conducted by this year’s recipients:



DR. R. HUDSON (RENEWABLE RESOURCES)

The diversified livestock industry can be traced to a vision of extensive, multiple-species grazing systems using natural rangeland resources and serving multiple niche markets. For a variety of reasons over a number of years, these industries fragmented and focused narrowly on lucrative markets for breeding animals and special products and, consequently, production became highly intensive. Now that over-heated markets have stabilized, the diversified livestock industries need to think of the opportunity to capture the synergy of co-production and co-marketing. With the McCalla Professorship, I intend to build a collaborative research and development program that will explore these synergies. The intent is to develop production and marketing systems that will avoid the costs of breaking seasonality of production and capture the ecological and production efficiencies associated with the complementary patterns of habitat and diet selection characteristics of wild ruminants.

PROFESSOR R. LINDSEY (ECONOMICS)

Many cities are plagued by two related transportation problems: growing traffic congestion and declining transit ridership. This project will investigate two private-sector approaches to these problems: private toll roads and competitive transit service markets. The toll roads envisaged are established in corridors where parallel public roads are available in order to limit monopoly power. Operators employ time-varying tolls to alleviate peak-period congestion. Markets for public transit are established by licensing competing bus or jitney operators to serve given routes. To support predictable timetables, each operator is granted exclusive rights to load passengers at specified locations and times of day.

PROFESSOR R. SZOSTAK (ECONOMICS)

We can advance our understanding of economic growth considerably by moving beyond the emphasis of formal growth theory on quantifiable relationships among a handful of economic variables. We must be methodologically flexible, open to insights from history, and willing to incorporate the effects of political, cultural, social, technical, and other phenomena. There is no work at present which draws together the necessary methodological, historical, and interdisciplinary insights; nor am I aware of another scholar with a previous research background in economic methodology, economic history, and the theory and practice of interdisciplinarity. Only a book-length treatment could allow me to illustrate the mutually

reinforcing effect of these three types of ‘broadening’ of our approach to economic growth. While my primary purpose is to enhance our understanding of growth, I intend to write in a jargon-free style such that those interested in teaching a course on economic growth would find the book a useful resource or text; there is at present no book which covers the terrain.

PROFESSOR D. BARBOUR (ENGLISH)

Studying the work of contemporary poets, in Canada and other “settler nations” like Australia, New Zealand, and the United States, I intend to explore how poets’ thinking about poetry in general influences their specific practice. I believe this research will shed some light on questions of cultural politics – the ways in which particular poets gain a certain public prominence, the means by which they achieve a position of influence, the ways some resist conventional artistic attitudes of the time. Mainly, I want to understand the varied and complex relations between a poet’s writing and her or his meditations upon the act of writing.

PROFESSOR O. ILNYTZKYJ (MODERN LANGUAGES AND CULTURAL STUDIES)

The disintegration of the Russian/Soviet Empire is posited in this research project as the institutional collapse of an inherently untenable cultural model that lost its power to legitimize social, political, and cultural practices of the State. Within an imperial public sphere, two mutually exclusive cultural ideologies – the “Ukrainian” and the “all-Russian” – were constructing the Ukrainian and Russian nations. This nation building took place through a literary and cultural discourse conducted by the Empire’s multinational imperial intelligentsia. The gradual ideological differentiation within this social group eventually undermined the cultural assumptions that served as the bedrock of the Empire.

DR. P. ROWELL (ELEMENTARY EDUCATION)

The research is based on the premise that curriculum and school programs are socially constructed. The intent of the study is to examine ways in which school science comes to be shaped by the construction, selection, and use of texts within the everyday experiences of students in an elementary classroom. The study will be carried out in a school participating in the Scientists 2010 project, in which science and technology are curricular emphases. Of particular interest will be text production emanating from ready access to a computer, museum weeks at the Space and Science Centre and the science/technology mentorship component of the Scientists 2010 program.



DR. Z. XU (CHEMICAL & MATERIALS ENGINEERING)

Dr. Xu’s research focuses on interfacial phenomena in materials and chemical processing. His recent research interest in surface science-based engineering of nanomagnetic particles has resulted in an important progress in using magnetic carriers for biological cell separation. The McCalla Professorship award will allow him to further extend his research interests to engineering of mesoporous magnetic nanocomposite materials for environmental applications. He will focus on the synthesis and characterization of mesoporous silica network of controllable pore density, pore size, and surface functionality for targeted applications such as removal of toxic species and/or recovery of valuables from industrial effluents.

DR. W. XU (ELECTRICAL & COMPUTER ENGINEERING)

The electrical power industry worldwide is experiencing rapid deregulation. Alberta is at the forefront of such changes. One of the problems encountered by the market is the difficulty to understand and predict its behaviour. During the tenure of the McCalla Professorship, Dr. Xu intends to initiate a research work on this problem by developing a model for Alberta’s electricity market. Such a model could be one of the effective tools to address the needs of power industry. In addition to this work, there are also plans to establish a testing platform for power quality related research projects.

DR. S. MCEWAN (ONCOLOGY)

Positron emission tomography is an imaging technique that allows the in-vivo measurement of tumour metabolism using radioactive glucose analogues and other radiopharmaceuticals targeting metabolic processes in vivo. We intend to use this methodology to assess cancer treatment response, and to attempt to validate the hypothesis that PET imaging can be used as an in-vivo predictive assay of cancer treatment response. These experiments will be performed both in a clinical and a preclinical setting, and in particular will be used to evaluate cellular metabolic response to very low-dose rate radiotherapy administered by systemic radiopharmaceuticals.

The technology is the first to be installed in Western Canada for this research, and clinical operations began in March of this year.

DR. M. ALLEN (NURSING)

Marion Allen’s research focus is on how persons live with chronic disease and disability, particularly those with visual impairment and blindness. She is also keenly interested in the use of alternative/complementary therapies by persons with chronic disease. During the tenure of the award she will be conducting a clinical trial on the effectiveness of elk velvet antler in rheumatoid arthritis. Despite the phenomenal increase in use of alternative therapies, there has been limited research to substantiate the efficacy of their use in rheumatoid arthritis. As well, she will be doing theoretical work on living with visual impairment.

DR. W. RODGERS (PHYSICAL EDUCATION AND RECREATION)

Self-efficacy (Bandura, 1986/1997) is an important predictor of behaviour. Kirsch (1985/1995) suggested that some ratings of self-efficacy represent a “can’t” versus “won’t” distinction. For example, when people say they “can’t” eat worms, they really mean they “won’t” eat worms compared to saying they “can’t” lift a 300-lb. weight. Someone might be persuaded to eat worms, because, really, they possess the basic capabilities, but lack motivation, but a person lacking the strength could never lift 300 pounds. So, what does it mean when an initiate exerciser says she “can’t” exercise three times per week? Does this mean she is really incapable or that she is unwilling, and are these ratings influenced by the type of exercise?



DR. D. GIGNAC (FACULTÉ SAINT-JEAN)

Peatlands (muskeg) are climatically sensitive ecosystems that occupy vast areas of North America. They are quite diverse and often contain a variety of landforms. The vegetation on each landform feature is distinctive and as a result, species diversity can be quite high. The proposed

research will attempt to reduce the complexity of this diversity by grouping species that have similar characteristics into functional groups. The ecological, climatic, and geographic distribution of each group will then be quantified. This analysis will permit the identification of landforms on peatland landscapes across North America based on the vegetation. This is a first step to predicting vegetation and landscape changes on peatlands during climate warming.

DR. J. ROLAND (BIOLOGICAL SCIENCES)

My research focuses on large-scale spatial dynamics and dispersal of insect populations. During the tenure of my McCalla Professorship, I will be working in collaboration with two faculty members in Mathematical Sciences (U of A), Drs. Subhash Lele and Mark Lewis, in testing both statistical and theoretical models of insect dynamics and dispersal. Testing of alternative models will be done using long-term and large-scale data on insect population dynamics collected by me and my students, for pest species (tent caterpillar) and for endangered species (butterflies). Specifically, we will: 1. fit population models to spatial data on forest tent caterpillar populations, their parasites and viral disease. Fitted models will be used to compare caterpillar dynamics in intact forests to their dynamics in forests which have been fragmented by logging and agriculture, and 2. estimate dispersal functions for endangered butterflies inhabiting isolated and fragmented habitats, as a guide to estimating the amount and connectivity of habitat needed for their conservation. The McCalla Professorship affords the opportunity to integrate two very active areas of research within the respective disciplines of Ecology and Mathematics, namely: spatial ecology, and mathematics and statistics of spatially-coupled systems.



DR. M. PALCIC (CHEMISTRY)

Enzymes are biological protein catalysts that are responsible for virtually all chemical transformations that occur in living organisms.

Increasingly, chemists are employing enzymes in organic syntheses to take advantage of their rate acceleration, stereoselectivity, regioselectivity, and environmentally friendly reaction conditions. This is particularly true in oligosaccharide synthesis. Oligosaccharides are a diverse and complex class of carbohydrates widely distributed in nature. Their biological significance ranges from defined roles as structural elements and energy sources, cellulose and starch, to less defined roles as ubiquitous constituents of glycoproteins and glycolipids on mammalian, bacterial or viral cell surfaces and components of microbial metabolites. The chemical synthesis of oligosaccharides is a laborious multi-step endeavour and is particularly challenging for the preparation of analogs where additional steps must be employed to introduce a modification at a specific position. Our biocatalytic approach utilizes glycosyltransferase enzymes for direct oligosaccharide and oligosaccharide analog synthesis. However, we are increasingly hampered by a lack of large quantities of transferases for synthetic applications. We have also recognized the limitations of naturally occurring enzymes in analog preparation and we want to modify the catalytic properties of the enzymes to broaden their substrate specificities. These goals will all be achieved by manipulation of cloned enzymes to tailor the quantities and specificities of glycosyltransferase biocatalysts. ■

positions

The records arising from this competition will be managed in accordance with provisions of the Alberta Freedom of Information and Protection of Privacy Act (FOIP). The University of Alberta hires on the basis of merit. We are committed to the principle of equity of employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities, and Aboriginal persons.

DEAN FACULTY OF SCIENCE

The University of Alberta invites applicants for the position of dean, Faculty of Science. The university has a clear vision, shared by the faculty, to be indisputably recognized, nationally and internationally, as one of Canada's finest universities and among a handful of the world's best. The university plays an integral role in the educational, business and cultural life of Alberta through the impact of its integrated mandate of teaching, research and community service. More than 4,500 courses are offered in 16 faculties where more than 29,000 students are enrolled.

The Faculty of Science consists of 300 full-time faculty members and 250 support staff in seven departments that offer B.Sc., M.Sc. and doctoral programs. The departments are Biological Sciences, Chemistry, Computing Science, Earth and Atmospheric Sciences, Mathematical and Statistical Sciences, Physics and Psychology. In addition to offering undergraduate programs to 5,300 full-time students, academic staff are actively involved in graduate instruction and research. Research activities generate approximately \$55 million in grant and contract support. Further information may be obtained on the Web at <http://www.ualberta.ca/SCIENCE>.

The dean is responsible to the provost and vice-president (academic) for the supervision and administration of the academic programs, budget and all activities of the faculty. Candidates should have proven administrative ability, well-developed leadership skills and strong academic qualifications in a field of research that enhances the activities of the faculty.

The appointment will take effect on July 1, 2002 or as soon as possible thereafter.

Written nominations or applications, accompanied in the latter case by a résumé and the names of three referees, should be submitted by Dec. 15, 2001 to the Landmark Consulting Group Inc., 25 Main Street West, Suite 2225, Hamilton, ON, L8P 1H1, or by electronic mail to resumes@landmarkconsulting.org.

ASSISTANT PROFESSOR, POULTRY EMBRYOLOGY DEPARTMENT OF AGRICULTURAL, FOOD AND NUTRITIONAL SCIENCE

The Department of Agricultural, Food and Nutritional Science (AFNS) at the University of Alberta invites applications for an assistant professor position in poultry embryology as part of a major development of its production efficiency and sustainability research and teaching capabilities. This externally funded position is for five years, with the possibility of extension. The successful candidate will work within the Alberta Poultry Research Centre, a joint initiative between the University of Alberta, Alberta Agriculture, Food and Rural Development and the Alberta poultry industry.

Applicants must have a PhD in avian embryology or incubation physiology. The successful candidate will be expected to contribute to teaching programs within the department of AFNS and supervise M.Sc. and PhD students. The appointee will attract major external funding in support of a world-class research program already in place, and is expected to publish information in refereed and non-refereed publications. It is expected that the candidate will possess a demonstrated ability to conduct independent research that would provide short-term answers and long-term solutions to problems facing the commercial egg-hatching industries in Alberta. Candidates who have established linkages with other researchers or institutions with ongoing programs in poultry embryology will be favored. Excellent communication skills, including a strong commitment to excellence in undergraduate teaching and graduate student supervision, are essential.

The successful candidate will contribute to the department's mission "to achieve excellence in teaching and research in efficient and sustainable production, processing and utilization of safe and nutritious food to promote health".

The successful candidate is expected to collaborate with research activities of the scientists at the Alberta Poultry Research Centre (www.agric.gov.ab.ca/aprc) working from the University of Alberta (www.ualberta.ca), Alberta Agriculture, Food and Rural Development (www.agric.gov.ab.ca) and/or with industry. The University of Alberta has excellent research facilities and equipment, with over \$3.5 million being spent on a fully-equipped research hatchery, numerous sophisticated poultry housing facilities for broiler breeders, egg-type hens, turkeys and broilers as well as a federally inspected poultry processing laboratory. Support for basic research initiatives will be provided from numerous specialized analytical laboratories on the main campus.

Applications, including a statement of research and teaching interests, curriculum vitae, and the

names of three referees should be sent to Dr. John Kennelly, Chair, Department of Agricultural, Food and Nutritional Science, University of Alberta, Edmonton, Alberta, Canada T6G 2P5. Closing date for applications is December 6, 2001. For further information on this position contact Dr. Kennelly at (780) 492-2131 / (780) 492-4265 (fax), email chair@afns.ualberta.ca or visit our web site at www.afns.ualberta.ca.

In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents. If suitable Canadian citizens and permanent residents cannot be found, other individuals will be considered. The University of Alberta hires on the basis of merit.

ASSISTANT TO THE ASSOCIATE DEAN (RESEARCH) FACULTY OF PHYSICAL EDUCATION AND RECREATION

The Faculty of Physical Education and Recreation invites applications for the newly created position of assistant to the associate dean (research).

This is a half-time, term position for 12 months. The start date is December 01, 2001.

Responsibilities

- Organizing a research speaker series: correspondence, promotions, and preparation of applications for funding support.
- Co-ordinating ethics reviews: organizing meetings, receiving applications, initial review of applications, distribution of files to committee members, monitoring files, updating of yearly renewals/non-renewals.
- Organizing and supervising Faculty Research Day.
- Co-ordinating communications events: special talks, receptions for award recipients.
- Co-ordinating meetings of research groups and other groups working on initiatives out of the office of the associate dean (research).
- Draft production of the faculty's annual Research Report and other promotional materials such as brochures.

Qualifications

- University degree, Master's preferred.
- Familiarity with a large, research-intensive university. Experience with the U of A campus is highly desirable.
- Excellent organizational and communication skills, demonstrated by at least five years of increasingly responsible positions in the field of communications/marketing.
- Superior interpersonal skills.

Salary

Commensurate with education and experience.

Inquiries: please contact Dr. Wendy Rodgers, Associate Dean (Research) at 492-5910 or wendy.rodgers@ualberta.ca.

Application Materials: can be sent via e-mail, FAX (492-6549), or Campus Mail (E-424 Van Vliet Centre).

Application Deadline: all materials must be received by Friday, October 26, 2001.

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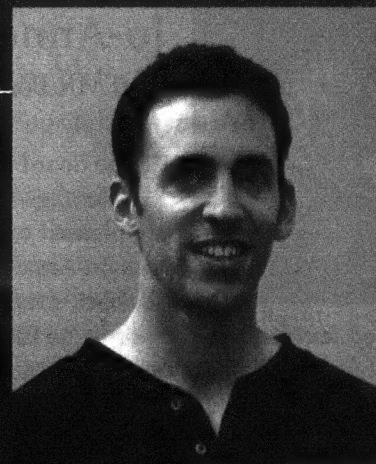
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"He made a special effort to try to remember students' names and even emailed me a congratulatory message after he had finished marking my midterm exam on the weekend."
- PHYS 124 Student

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- PHYS 124 Student

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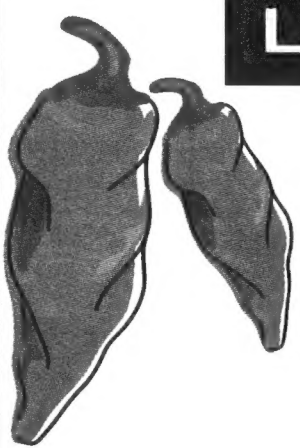


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N E W A P P O I N T M E N T



Alberta Heritage Foundation for Medical Research



Jo-Anne Lubin

AHFMR Board of Trustees

The Board of Trustees and staff of the Alberta Heritage Foundation for Medical Research are pleased to announce the appointment of Mrs. Jo-Anne Lubin to the AHFMR Board of Trustees. Mrs. Lubin's appointment was approved by the Lieutenant Governor by an Order in Council on September 13, 2001. Mrs. Lubin is the nominee of the (MSI) Foundation.

Mrs. Lubin, of Edmonton, received her Bachelor of Arts from the University of Saskatchewan and a Masters of Education from the University of Alberta. Her educational career has spanned nearly thirty-five years in Saskatchewan and Alberta, from teaching in elementary and junior high schools to leadership roles as a principal and district representative. In tandem with her educational career, Mrs. Lubin has served on numerous professional committees to address issues in teaching and schools. She has a particular interest in gifted students, and in French language studies. Mrs. Lubin is a member of the Board of the MSI Foundation.

Since 1980, the AHFMR has awarded more than \$650 million to basic biomedical researchers at the University of Alberta, the University of Calgary, the University of Lethbridge and their affiliated institutions, and to health research activity throughout the province. Heritage scientists recruited in Alberta, from other parts of Canada and from around the world, are earning international acclaim for their research advances in such fields as heart function, genetics, cancer, diabetes, and population health. Heritage researchers attract \$2-3 in outside funding for every AHFMR dollar received.

AHFMR was highly commended for its record of achievements and the excellence of its activities throughout the province in a Report prepared by members of an International Board of Review in December, 1998. ■

talks & events

Submit talks and events to Cora Doucette by 9 a.m. one week prior to publication. Fax 492-2997 or e-mail at cora.doucette@ualberta.ca.

UNTIL NOVEMBER 4, 2001

Exhibition at the McMullen Gallery, University of Alberta Hospital, featuring "Big and Brave." This exhibit demonstrates what print artists can create when faced with a challenge. Gallery hours: Monday to Friday, 10:00 a.m. to 8:00 p.m. Saturday and Sunday, 1:00 to 8:00 p.m. The McMullen Gallery is located at 8440 - 112 Street. For more information, please contact Dawn McLean, dmclean@cha.ab.ca or Michelle Casavant, mcasav@cha.ab.ca Telephone: 407-7152.

OCTOBER 19

Ecology Seminar Series (part of the Biology 631 Seminar Series). Drew Hoysak, "Reproductive competition between alternative male phenotypes in sockeye salmon: sperm wars and frequency-dependent mayhem." M-149 Biological Sciences Building. 12:00 noon.

John Dossetor Health Ethics Centre. Health Ethics Seminars. "Ethical Issues in Working with Vulnerable Populations." Presented by Doris Kieser, M.A. Theology, M.A. Counselling. Room 207, Heritage Medical Research Centre. 12:00 noon to 1:00 p.m.

High Performance Computing Information Session. Refreshments and reception to follow. High performance computing resources are available for researchers and graduate students at the University of Alberta. We invite you to join us for an information session about resources available to you in Alberta and across Canada. Location: 315 General Services Building. 2:00 to 4:00 p.m.

Molecular Biology and Genetics Research Group (part of the Genetics 605 seminar series). Marco Marra, "An update on activities at the British Columbia Cancer Agency Genome Sequence Centre." Room V-128, Physics V-Wing. Also part of the Biological Sciences Departmental Seminar Series. 3:00 p.m. (refreshments available at 2:30)

Hosted by Department of Physiology. Speaker: Dr. Joseph Casey. Title: "Regulation of Chloride/Bicarbonate Exchangers by Angiotensin II and Carbonic Anhydrase: A Strange Cake to Bake." Room 207 Heritage Medical Research Centre. 3:00 p.m.

Departmental Seminar Series. Marco Marra, "An update on activities at the British Columbia Cancer Agency Genome Sequence Centre." Room V-128, Physics V-Wing. Also part of the **Genetics 605 Seminar Series.** 3:00 p.m. (refreshments available at 2:30).

Philosophy Colloquium. Marguerite Deslauriers, Department of Philosophy, McGill University, speaking on "The Virtues of Slaves and Women and the Structure of Aristotle's Politics, Book I." Room 4-29 Humanities Centre. 3:00 p.m.

Department of Physics Colloquium. Professor Alex Lazarian, University of Wisconsin. Colloquium Title: "Properties of MHD Turbulence: Why we Should Know Them." Room V-129 Physics Building. 3:15 p.m.

Music at Convocation Hall. Nan Hughes, soprano, Janet Scott Hoyt, piano. 8:00 p.m. Admission: \$7/student/senior, \$12/adult. Convocation Hall, Arts Building. All concerts and events are subject to change without notice. Please call 492-0601 to confirm concert information.

OCTOBER 21

Master of Music Recital. David Sawatzky, Choral Conducting. Convocation Hall, Arts Building. Free admission. 8:00 p.m.

OCTOBER 22

Presented by the Department of Cell Biology. Alberta Heritage Foundation for Medical Research guest speaker, Dr. Heinrich (Heinz) Feldmann, Laboratory Centre for Disease Control, speaking on "Glycoproteins of Hemorrhagic Fever Viruses: Biosynthesis, Processing, Function and Role in Pathogenesis." Seminar Room 5-10 Medical Sciences Building. 9:30 a.m. to 10:30 a.m.

Sociology PhD Seminar. Shawkat Shareef, PhD Candidate, Sociology, speaking on "Sustainable Forestry, NGOs, and the Marginal People: A Comparative Study of Two Organizations." Room 5-15 H.M. Tory Building. 12:00 noon to 1:00 p.m.

OCTOBER 23

Lunch & Learn Presentations. **Health Recovery Support Unit, Human Resources.** Jill Caston, Lousage Institute, presents "Parenting Skills for Today's Challenges" (Part 3 of 3). 12:00 noon to 1:00 p.m. Presentations take place in Heritage Lounge, Athabasca Hall. Cost: Free! Snacks and cold beverages will be provided. Seating is limited. To register or for more information contact Sarah Treby, 492-

0659 or email: sarah.treby@hrs.ualberta.ca. Self Help Information Line, 492-8444 or visit our web site www.hrs.ualberta.ca/efap/news/ for an updated list of all workshops and other offerings.

Academic Technologies for Learning. Facilitating Online Discussion. Ellen Whybrow-howes. Room 2-111 Education North. Register at www.atl.ualberta.ca 12:30 to 2:00 p.m.

Sociology PhD Seminar. Wes Dean, PhD candidate, Department of Sociology, speaking on "Broken Promises: The Canadian 'Tainted Blood' Scandal." Room 5-15 H.M. Tory Building. 12:00 noon to 1:00 p.m.

University Teaching Services. Ernie Skakun, Studies in Medical Education, workshop on "Crafting the Perfect Multiple-Choice Questions: Can it be Done?" Room 281 Central Academic Building. 3:00 to 4:30 p.m.

OCTOBER 23 TO NOVEMBER 4, 2001

Exhibition at the FAB Gallery "Interleaves." Kelly Krueger, MFA Painting. Opening Reception, October 26, 7:00 to 10:00 p.m. Gallery Hours: Tuesday to Friday, 10:00 a.m. to 5:00 p.m., Sunday, 2:00 p.m. to 5:00 p.m. Closed Monday, Saturday, and statutory holidays. FAB Gallery is located at 89 Avenue and 112 Street. Telephone: 492-2081.

OCTOBER 24

Agricultural, Food and Nutritional Science, Nutrition and Metabolism Research Seminar. Dr. Gregory Korbitt, Faculty of Medicine, will present seminar entitled "Islet transplantation. Future Directions." Classroom D (2F1.04) Walter Mackenzie Centre. 11:00 a.m. to 12:00 p.m.

Academic Technologies for Learning. Introduction to Distance and Distributed Learning. Janice Picard. This presentation focuses on the foundations and the future of distance teaching and learning. Register at www.atl.ualberta.ca 11:45 a.m. to 1:00 p.m.

Sociology PhD Seminar. Jana Grekul, PhD Candidate, Sociology, speaking on "The Social Construction of the Feeble-Minded Threat: Implementation of the Sexual Sterilization Act in Alberta, 1929-1972." Room 5-15 H.M. Tory Building. 12:00 noon to 1:00 p.m.

Public Health Sciences, Colloquium and Grand Rounds. Dr. Terry Sullivan, PhD, currently Vice-President of Preventive Oncology, CancerCare Ontario, "Workplace Health Research: Past, Present and Future." Classroom D (2F1.04) Walter Mackenzie Centre. 12:00 noon to 1:00 p.m. For information on the series please contact Leanne Baudistel at 492-6408 or email: leanne.baudistel@ualberta.ca

University Teaching Services. Brad Hestbak, Client Services, workshop on "PowerPoint for Beginners" in Technology Training Centre. 4:30 to 6:00 p.m.

OCTOBER 25

Academic Technologies for Learning. Project Management Part II. Robert Aucoin. Participants who have taken Part I in Spring or September 2001 are welcome to attend. Please bring an example of a project for discussion purposes. Room 2-111 Education North. Register at www.atl.ualberta.ca 12:00 to 1:00 p.m.

Department of English presents a joint reading by poets rob mcLennan and Ken Norris. Room 4-29 Humanities Centre. For more information, contact Carolyn Presling, 492-1046 or email carolynp@ualberta.ca 2:00 p.m.

Chemical and Materials Engineering. Clayton J. Radke from the University of California presents "Protein Adsorption at Fluid/Fluid Interfaces: Birth and Death." Room 2-03 Mechanical Engineering Building. 3:00 to 4:20 p.m.

OCTOBER 25 AND EVERY THURSDAY UNTIL APRIL, 2002

The Campus Observatory, roof and 7th floor of the Physics Building, is open for the 2001-2002 academic year. Open to everyone on Thursday evenings (except exam and holiday periods) beginning at 8:00 p.m. Special nighttime or daytime group visits can be arranged for other days and times. The Observatory will be open regardless of weather conditions. On cloudy nights a slide show can be substituted for telescopic observing. Reservations not required. For additional information, please contact Adam Pigeon, S.P.A.C.E. (Students Promoting Astronomy Culture and Education) - new club formed by the undergraduate student volunteers, apigeon@ualberta.ca, or Doug Hube, 492-5410, or Sharon Morsink, 492-3987.

OCTOBER 26

Ecology Seminar Series (part of the

Biology 631 Seminar Series). Marguerite Xenopoulos, "Ultraviolet radiation as an ecological factor on lakes." M-149 Biological Sciences Building. 12:00 noon

Sponsored by the **Centre for Knowledge Transfer, Faculty of Nursing, U of A and the Alberta Heritage Foundation for Medical Research.** Dr. Michael Rachlis, nationally known speaker and author, will speak on "Modernizing Medicare for the 21st Century: Saving Medicare through Innovation." Room 241, Corbett Hall, 8205 - 114 Street. 12:30 to 2:00

Hosted by the **Department of Physiology.** Dr. Peter Light, Department of Pharmacology, U of A, speaking on "The Yin and Yang of ATP-sensitive potassium channel phosphorylation: From heart to pancrea." Room 207 Heritage Medical Research Centre. 3:00 p.m.

OCTOBER 27

Career and Placement Services. Education Workshop "The Work Search for Education Students. 4-02 Students' Union Building. Pre-register at CaPS, 2-100 Students' Union Building, and receive a FREE individual consultation! For more information check out our Web site at www.ualberta.ca/caps 10:00 a.m. to 11:30 a.m.

Career and Placement Services. Education Workshop "Resume and Cover Letter Writing Skills for Education Students." Room 4-02 Students' Union Building., 12:00 to 3:00 p.m.

OCTOBER 28, 8:00 P.M.

Memorial Concert. In Memoriam: David Roxburgh. Co-sponsored by the Edmonton Composers' Concert Society and the Department of Music. 8:00 p.m. Admission: \$5/student/senior, \$10/adult. Convocation Hall, Arts Building. All concerts and events are subject to change without notice. Please call 492-0601 to confirm concert information.

Career and Placement Services. Education Workshop "Interview Skills for Education Students." Room 4-02 Students' Union Building. 10:00 a.m. to 12:30 p.m.

Career and Placement Services. Education Workshop "Building a Teaching Portfolio." Room 4-02 Students' Union Building. 1:00 to 2:30 p.m.

OCTOBER 29

Presented by the **Department of Cell Biology.** Alberta Heritage Foundation for Medical Research guest speaker Dr. Susan Forsburg, The Salk Institute for Biological Studies, speaking on "Putting it together: linking DNA replication to downstream events in the fission yeast cell cycle." Seminar Room 5-10 Medical Sciences Building. 9:30 to 10:30 a.m.

Academic Technologies for Learning. Evaluating Innovation Using Surveys. Stanley Varnhagen. This workshop specifically examines the written survey methodology that can be used in classroom-based evaluation. Room 2-111 Education North. Register at www.atl.ualberta.ca 12:00 to 1:00 p.m.

Noon-Hour Organ Recital. Convocation Hall. Free admission. 12:00 noon.

University Teaching Services. Robert de Frece, Elementary Education, workshop on "Creating a Positive Classroom Atmosphere." Room 281 Central Academic Building. 3:00 to 4:30 p.m.

Centre for Health Promotion Studies. Dr. Penny Hawe, University of Calgary, presents lecture entitled "Evaluating Community Interventions: Qualitative and Quantitative Methods within a Community-based Project to Prevent Post Natal Depression." Classroom D, 2nd floor, U of A Hospital. 3:30 to 5:00 p.m.

The University of Alberta Press is delighted to launch From Rupert's Land to Canada: Essays in Honour of John E. Foster at the 3rd annual Canadian Pacific Lecture in Western Canadian History. Dr. Brian Evans, C.M., Professor Emeritus, Department of History and Classics, will speak on "Quon Koy: Growing up Chinese in Alberta Before WWII." Hotel MacDonald, main ballroom. Book display and reception to follow. 7:30 p.m.

OCTOBER 30

University Teaching Services. Garret Eisenbraun, Field Atkinson Perraton, Barristers and Solicitors, as part of the UTS Brown Bag Lunch Series, will present: "Hurt Feelings: Limits on Free Discourse in University Classrooms." Room 219 Central Academic Building. 12:05 to 1:00 p.m.

Department of Biochemistry presents Dr. Luis Agellon, speaking on "The Role of Nuclear Receptors in Regulating Bile Acid Synthesis." Room 207 Heritage Medical Research Centre. 3:00 p.m.

University Teaching Services. Sandra Campbell, Cameron Library, presentation on "netLibrary: E-books on Your Desktop" in Room 243 Central Academic Building. 3:30 to 4:30 p.m.

OCTOBER 31

International Institute for Qualitative Methodology. Dr. Joe Norris, Faculty of Education, speaking on "Trick or Treat? Exploring the Epistemological Underpinnings of Art-Based Research.

6-10 University Extension Centre. 12:00 to 1:00 p.m.
Department of Public Health Sciences, Colloquium and Grand Rounds. Epidemiology: Dr. Steve Newman, Professor: "A Comparison of Rates of Attempted Suicide in Edmonton and Calgary." Classroom D (2F1.04) Walter Mackenzie Centre. 12:00 to 1:00 p.m. For information on the series, please contact Leanne Baudistel, 492-6408 or email: leanne.baudistel@ualberta.ca

Lunch & Learn Presentations. Health Recovery Support Unit, Human Resources. Joanne Seitz, Chandler Haave Vandersteen Carter, presents "How do I like me now? Developing Self-Esteem." Presentations take place in Heritage Lounge, Athabasca Hall. 12:00 noon to 1:00 p.m. Cost: Free! Snacks and cold beverages will be provided. Seating is limited. To register or for more information contact Sarah Treby, 492-0659 or email: sarah.treby@hrs.ualberta.ca. Self Help Information Line, 492-8444 or visit our web site www.hrs.ualberta.ca/efap/news/ for an updated list of all workshops and other offerings.

University Teaching Services. Dianne Conrad, Faculty of Extension, workshop on "Applying Adult Learning Principles to Online Teaching." Room 281 Central Academic Building. 3:00 to 4:30 p.m.

Career and Placement Services. General Workshops. "Interview Skills." Room 4-02 Students' Union Building. 4:30 p.m. to 7:00 p.m.

UNTIL OCTOBER 31, 2001

Standard First Aid/Heartsaver Courses. **The Office of Environmental Health & Safety** has arranged for Standard First Aid/Heartsaver courses to be held on campus once again this year. The training is comprised of two full-day sessions (8:00 a.m. to 4:00 p.m.) with morning, lunch and afternoon breaks. The cost is \$80.00 per person. The first course will be held in early April and the last at the end of October. Registration is limited due to classroom size. For further information and registration forms please call Cindy Ferris at 492-1810 or e-mail cindy.ferris@ualberta.ca

Physical Education and Recreation. Research Participants Wanted. Volunteers aged 50 and up are invited to participate in a research study. Men and women who are currently NOT exercising regularly, and who wish to do so, are invited to take part in a one year research project starting this fall. Purpose of study is to monitor personal motivation for physical activity and how some people may talk themselves out of participating. The study has ethics approval from the Faculty of Physical Education and Recreation. To register or obtain more information, call Dr. Sandy Cousins at 492-8507.

NOVEMBER 1

University Teaching Services. Walter Allegretto, Mathematical Sciences, as part of the UTS Brown Bag Lunch Series, will present: "Graduate Student Supervision." Room 219 Central Academic Building. 12:05 to 1:00 p.m.

St. Joseph's College presents panel discussion on "Has Neuroscience Explained Away the Soul? Neuroscience, Philosophy and Theology in Dialogue." Panelists: Dr. Heather Looy, Psychology, The King's University College; and Dr. Paul Flaman, Christian Theology, St. Joseph's College. Room: Faculty Lounge, St. Joseph's College. 3:00 to 4:30 p.m.

NOVEMBER 1 - 10, 2001

Studio Theatre. Canadian playwright Deborah Porter's "Flowers" will be presented at the Timms Centre. This story is based on the tragic lives of the Dionne quintuplets as they become adults and come to terms with their haunting past. All evening performances begin at 8:00 p.m. Matinees on the second Thursday of each run begin at 12:30 p.m. For more information, please call the Box Office at 492-2495. The Box Office is open Tuesdays to Fridays, noon to 5:00 p.m. Studio Theatre is located in the world-class Timms Centre for the Arts, on the corner of 87 Avenue and 112 Street.

NOVEMBER 2

Sociology Visiting Speaker Series. Dr. Joel Best, Professor and Chair, Sociology and Criminal Justice, University of Delaware, speaking on "Social Problems as Institutional Fads." Room 5-15 H.M. Tory Building. 12:00 noon to 1:00 p.m.

The Centre for Ethnomusicology, World Music Sampler, Fine Arts Building, 2nd floor foyer. Free admission. 12:00 noon

Department of Biological Sciences. Susan Lingle, "Encounter, Attack or Kill? Antipredator behaviour and the escalation of coyote encounters with deer." Room B5 M-145, Biological Sciences Building. 12:00 noon.

Computing Science Department, Distinguished Lecture Series. Doug Lea, State University of New York at Oswego, presents "Scalable IO in Java." Room 243, Central Academic Building. 3:30 p.m.

Molecular Biology and Genetics Research Group (part of the Genetics 605 Seminar Series). Tony Percival-Smith, "Genetic Characterization of Body Part Inducers in Drosophila melanogaster." Room M-149 Biological Sciences Building. 4:00 p.m.

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N E W A P P O I N T M E N T



Alberta Heritage Foundation for Medical Research



Harvey Weingarten

AHFMR Board of Trustees

The Board of Trustees and staff of the Alberta Heritage Foundation for Medical Research are pleased to announce the appointment of Dr. Harvey Weingarten to the AHFMR Board of Trustees. Dr. Weingarten's appointment was approved by the

Lieutenant Governor by an Order in Council on September 13, 2001. Dr. Weingarten is the nominee of the Governors of the University of Calgary.

Dr. Harvey Weingarten, of Calgary, is the seventh President of the University of Calgary. A native of Montreal, Dr. Weingarten holds a Bachelor of Science degree from McGill University and a Master of Science, a Master of Philosophy, and a PhD in Psychology, all from Yale University. A distinguished scholar and researcher in the fields of medicine and psychology, Dr. Weingarten studies the psychological and biological controls of eating and body weight. Prior to his move to the University of Calgary, Dr. Weingarten was a faculty member, department chair, Dean, and Provost and Vice-President (Academic) at McMaster University, Hamilton, Ontario.

Since 1980, the AHFMR has awarded more than \$650 million to basic biomedical researchers at the University of Alberta, the University of Calgary, the University of Lethbridge and their affiliated institutions. AHFMR also supports various programs and initiatives throughout the province with a focus on health in communities. Heritage scientists recruited in Alberta, from other parts of Canada and from around the world, are earning international acclaim for their research advances in such fields as heart function, genetics, cancer, diabetes, and population health. Heritage researchers attract \$2-3 in outside funding for every AHFMR dollar received.

AHFMR was highly commended for its record of achievements and the excellence of its activities throughout the province in a Report prepared by members of an International Board of Review in December, 1998. ■



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Faculty Position in Music

North American Baptist College, Edmonton, Alberta, invites applications for a full-time tenure-track faculty position in music, effective 1 July 2002.

Candidates must hold or be candidates for a Ph.D degree or equivalent. Applicants must be committed to the school's evangelical Baptist beliefs and mission. Canadian citizens and permanent residents of Canada will be given preference. Women and minorities are encouraged to apply. The College's Bachelor of Arts programs are accredited with the Private Colleges Accreditation Board of Alberta and the school is affiliated with the University of Alberta. The successful candidate will be involved in implementing a Bachelor of Arts in Music program.

An application package, including a supplementary application form, the College's Mission Statement and General Educational Objectives, Philosophy of Education, Statement of Beliefs, and Lifestyle Standards, is available for download from the College's Web Page at <http://www.nabcebs.ab.ca/nabc>

Faculty Position in Psychology

North American Baptist College, Edmonton, Alberta, invites applications for a full-time tenure-track faculty position in psychology, effective 1 July 2002.

Candidates must hold or be candidates for a Ph.D, Psy D., or equivalent degree. Experience in the integration of psychology and faith is an asset. Applicants must be committed to the school's evangelical Baptist beliefs and mission. Canadian citizens and permanent residents of Canada will be given preference. Women and minorities are encouraged to apply. The College's Bachelor of Arts programs are accredited with the Private Colleges Accreditation Board of Alberta and the school is affiliated with the University of Alberta. The successful candidate will be involved in implementing a Bachelor of Arts in Psychology program.

An application package, including a supplementary application form, the College's Mission Statement and General Educational Objectives, Philosophy of Education, Statement of Beliefs, and Lifestyle Standards, is available for download from the College's Web Page at <http://www.nabcebs.ab.ca/nabc>

Faculty Position in Sociology

North American Baptist College, Edmonton, Alberta, invites applications for a full-time tenure-track faculty position in sociology, effective 1 July 2002.

Candidates must hold or be candidates for a Ph.D degree or equivalent. Experience in the integration of sociology and faith is an asset. Applicants must be committed to the school's evangelical Baptist beliefs and mission. Canadian citizens and permanent residents of Canada will be given preference. Women and minorities are encouraged to apply. The College's Bachelor of Arts programs are accredited with the Private Colleges Accreditation Board of Alberta and the school is affiliated with the University of Alberta. The successful candidate will be involved in implementing a Bachelor of Arts in Social Sciences program.

An application package, including a supplementary application form, the College's Mission Statement and General Educational Objectives, Philosophy of Education, Statement of Beliefs, and Lifestyle Standards, is available for download from the College's Web Page at <http://www.nabcebs.ab.ca/nabc>

Completed application packages, including full curriculum vitae and references, should be forwarded to

Dr. Kevin Quast
 Academic Vice President
 North American Baptist College
 11525 - 23 Avenue, Edmonton, AB T6J 4T3
 Telephone: (780) 431-5213; Fax: (780) 436-9416
 Email: Kevin.Quast@nabcebs.ab.ca

The application deadline is 15 January 2002, or until a suitable candidate is found.

NOVEMBER 5

Department of History and Classics presents Kerry Abel, Department of History, Carleton University, speaking on "The Broke Hustler Meets the Advance: A Tale of Two Company Towns." Room 2-58 H.M. Tory Building. 3:30 p.m.

NOVEMBER 6

Centre for Research on Literacy. Research Luncheon Series. Ellen Long, ABC Canada, speaking on "Recruitment and Retention of Adults in Canadian Literacy and Upgrading Programs: Results of a National Study. Room 651a Education South. 12:30 p.m. As lunch is catered, please RSVP to Paula Kelly, Centre for Research on Literacy, 492-4250, extension 292 or paula.kelly@ualberta.ca

UNTIL NOVEMBER 7

University Extension Centre Gallery presents "Faculty of Extension Fine Arts Instructors Exhibition." Gallery hours are from 8:30 a.m. to 8:00 p.m. Monday to Thursday, 8:30 a.m. to 4:30 p.m. Friday, and 9:00 a.m. to 12:00 noon Saturday. Second Floor, University Extension Centre, 8303 - 112 Street. Information: 492-3034.

NOVEMBER 7

Sponsored by the School of Business. The Centre for Executive and Management Development (CEMD) is proud to offer the 6th Annual World Wide Lessons in Leadership. Live via satellite event will feature world-renowned speakers that include: Stephen Covey, Martha Rogers, Tom Peters, Ken Blanchard and Gary Hamel. 8:50 a.m. to 3:30 p.m. To register please call CEO Inc. at 421-1240. Register today as this event is already half sold!

NOVEMBER 8

Department of Renewable Resources presents Dr. Jack Ward Thomas, professor from the University of Montana. Title: "Are There Lessons for Canadian Foresters Lurking South of the Border?" Room Tory Lecture-B1. Forest Industry Lecture Series. 3:30 to 5:30 p.m.

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SELECTION COMMITTEE FOR DEAN OF THE FACULTY OF SCIENCE

Dr. Dick Peter's second term as Dean of the Faculty of Science will end on June 30, 2002 and an advisory selection committee has been established in accordance with university regulations to begin the search for a new dean.

At this point in its deliberations, the selection committee needs your opinions on the leadership needs of the faculty in the years ahead and any other key issues. Individuals are urged to contact members of the committee, or write to me as chair, to express your views on priorities of the faculty, current issues, and the future direction of the faculty. In order to facilitate the committee's work, could I please ask that you submit your comments by November 12, 2001.

In addition, individuals who may wish to stand as a candidate are invited to apply. Individuals may also nominate others who they feel would be suitable candidates.

The selection of a dean is vital to the success of the faculty. I would therefore ask you all to take the time, even at this hectic point in the academic year, to give some thought to the future of your faculty.

Your views are important to us and will be solicited again later in the process with an opportunity, at that time, to meet and question our final short-listed candidates at public forums. Thank you for your assistance.

Please forward your comments to the e-mail or mailing address below.

Should you prefer to share your comments with another member of the selection committee, please feel free to do so (contact information below).

Doug O'wram, Provost and Vice-President (Academic)
 2-10 University Hall, University of Alberta
 Edmonton, AB T6G 2J9
 E-Mail: provost@ualberta.ca

Doug O'wram, Provost and Vice-President (Academic)
 Chair, Dean Selection Committee - Faculty of Science

Dean Selection Committee Membership, Faculty of Science

Contact Information:

Doug O'wram	492-3443	provost@ualberta.ca
Gary Kachanoski	492-5353	gary.kachanoski@ualberta.ca
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Gregory Taylor	492-0672	gregory.taylor@ualberta.ca
Brian Sykes	492-5460	brian.sykes@ualberta.ca
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FIRST YEAR AWARDS

Trevor Allen, U of A Electrical and Computer Engineering
Julie Andreotti, U of C Computer Science
David Ballantyne, U of A Mathematical Sciences
Cyril Botteron, U of C Electrical and Computer Engineering
David Chang, U of A Chemical and Materials Engineering
Colin Cherry, U of A Computing Science
Scott Clark, U of C Biological Sciences
Michael Colgan, U of A, Electrical and Computer Engineering
David Cooke, U of A Physics
Don Dansereau, U of C Electrical and Computer Engineering
Carla Davidson, U of C Biological Sciences
Brian Dick, U of C Electrical and Computer Engineering
Barbara Marie Djurfors, U of A Chemical and Materials Engineering
Srdjan Dragic, U of A Electrical and Computer Engineering
Morris Flynn, U of A Mathematical Sciences
Georgia Fotopoulos, U of C Geomatics Engineering
Trevor Fox, U of C Electrical and Computer Engineering
Martin Fuhrer, U of C Computer Science
Bogdan Georgescu, U of C Electrical and Computer Engineering
Christian Gieson, U of A Electrical and Computer Engineering
Kenneth Harris, U of A Electrical and Computer Engineering
Alexander Holden, U of A Electrical and Computer Engineering
Jonathan Holzman, U of A Electrical and Computer Engineering
Sean Hunt, U of C Electrical and Computer Engineering
Paul Joss, U of C Mathematics and Statistics
Scott Kennedy, U of A Electrical and Computer Engineering
Cameron Kiddle, U of C Computer Science
Christine Lacasse, U of A Civil and Environmental Engineering
Simon Leonard, U of A Computing Science
Daniel Lizotte, U of A Computing Science
Alex MacDermid, U of A Physics
Jeffrey Mahovsky, U of C Computer Science
David Morgan, U of A Computing Science
Lora Neilson, U of A Electrical and Computer Engineering
Daniel Neilson, U of A Computing Science
Christopher O'Brien, U of A Computing Science
Sean Peacock, U of C Biological Sciences
Christopher Pischak, U of A Computing Science
Tim Poon, U of A Electrical and Computer Engineering
Robert Randall, U of C Electrical and Computer Engineering
Matthew Reid, U of A Electrical and Computer Engineering
Terence Schanenberg, U of A Computing Science
Ajit Paul Singh, U of A Computing Science
Ross Stirling, U of A Mechanical Engineering
Kerry Tomlin, U of C Biological Sciences
Anthony Van Tol, U of A Civil and Environmental Engineering
Ryan Watson, U of C Electrical and Computer Engineering

SECOND YEAR AWARDS

Nicholas Alekniak, U of A Computing Science
Jonathan Backer, U of A Computing Science
Kristen Beatty, U of A Physics
Andrej Bona, U of C Mathematics and Statistics
Steven Bromling, U of A Computing Science
Benjamin Chao, U of A Electrical and Computer Engineering
Claudine Couture, U of A Physics
Brad Davis, U of C Electrical and Computer Engineering
Carolina Diaz-Gonzalez, U of A Chemical and Materials Engineering
Kathleen Doherty, U of A Mathematical Sciences
Robert Elliott, U of A Electrical and Computer Engineering
Michael G. Forbes, U of A Chemical and Materials Engineering
Tyler J. Foster, U of A Physics
Janice Friedman, U of C Biological Sciences
Anne Gildenshuys, U of C Mechanical Engineering
Markus Hlynka, U of A Computing Science
Matthew Hopkins, U of C Chemistry
Scott Irvine, U of A Electrical and Computer Engineering
Padam Lal Kaffle, U of C Electrical and Computer Engineering
Sandra Lorraine Kennedy, U of C Geomatics Engineering
John C. Koob, U of A Electrical and Computer Engineering
Dion Leung, U of A Electrical and Computer Engineering
Michael William Lyach, U of C Electrical and Computer Engineering
Cameron Macdonell, U of A Computing Science
Glen MacGowan, U of C Geomatics Engineering
David Matthew MacLeod, U of C Geology and Geophysics
Geoffrey Messier, U of A Electrical and Computer Engineering
Kyle O'Keefe, U of C Geomatics Engineering
Patrick Pantel, U of A Computing Science
Christopher A.C. Parker, U of A Computing Science
Mark Petovello, U of C Geomatics Engineering
Michael James Pyrez, U of A Civil and Environmental Engineering
David Schibli, U of C Biological Sciences
Ryan Schneider, U of C Electrical and Computer Engineering
Jeremy Sit, U of A Electrical and Computer Engineering
Raymond Sung, U of A Electrical and Computer Engineering
Roberto Villanueva, U of C Mech and Manufacturing Engineering
Robert Walton, U of A Electrical and Computer Engineering
Michael S. J. Wojcikowski, U of A Mechanical Engineering



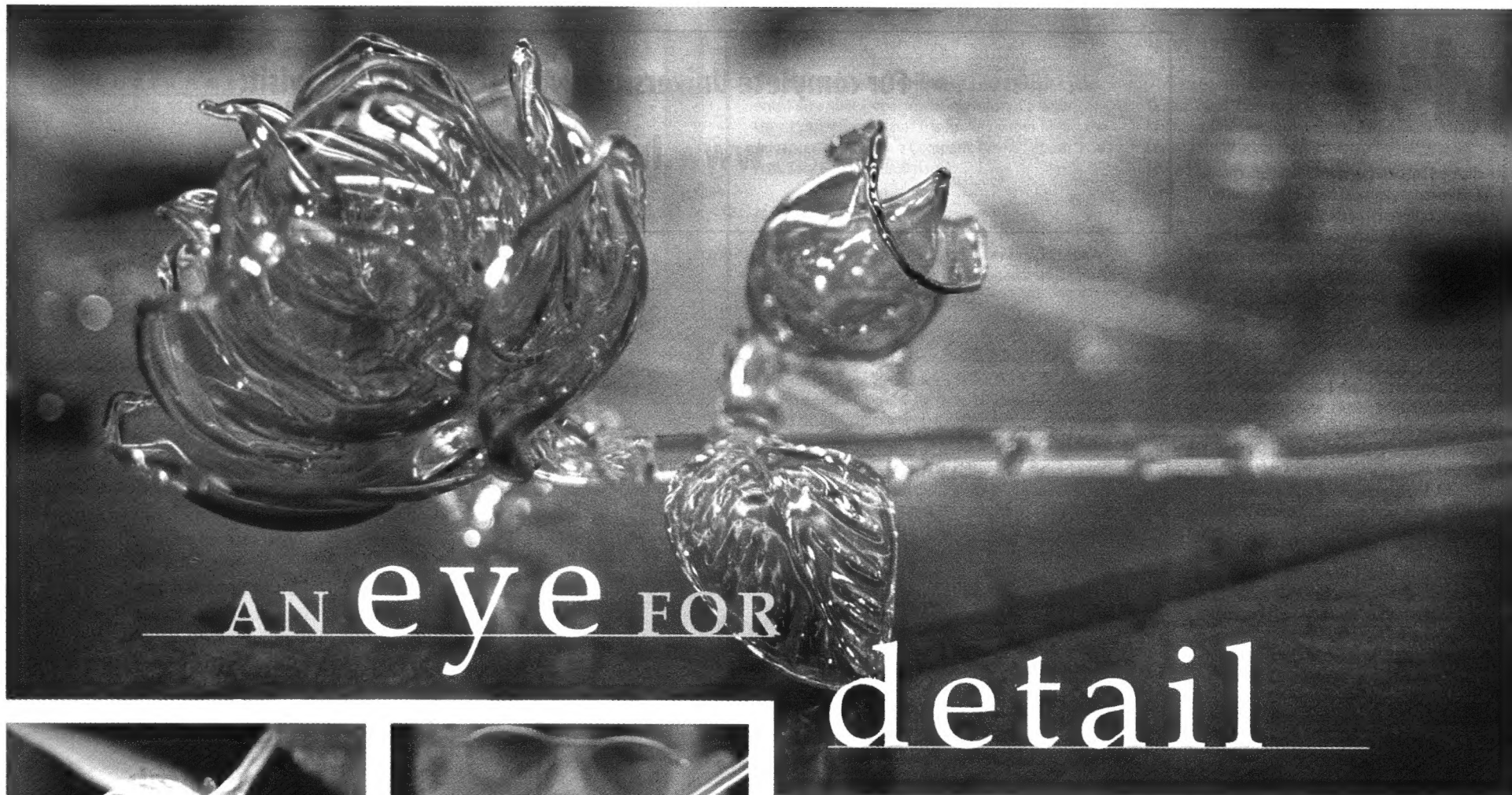
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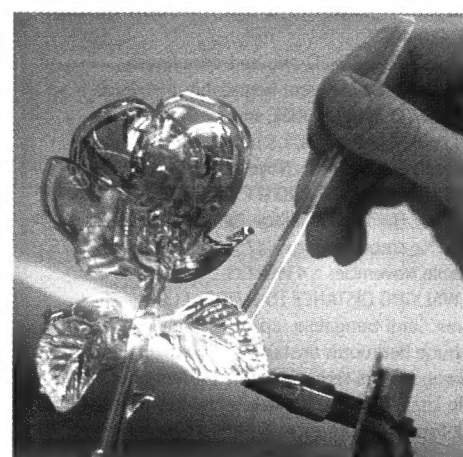
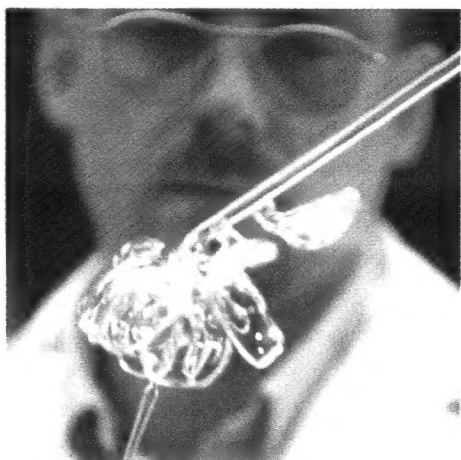
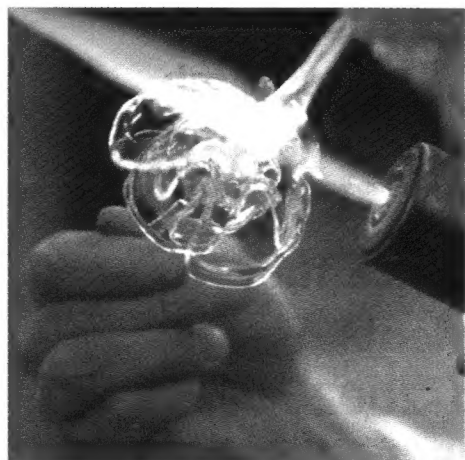
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AN eye FOR detail

Marcus Bence



U of A glassblowers perform fast, precise work

By Gilbert A. Bouchard

There's an undeniable flair to expert scientific glassblower Gerald Streefkerk's motions as he deftly spins a complicated looking glass apparatus on his lathe.

Of course, 28 years of experience working for the University of Alberta's scientific glassblowing services has a lot to do with his skill, but there's another reason for the free-hand work accomplished by the specialist technician and his two colleagues. There is no other choice.

"You have to work by eye—after all, you can't really put a ruler on the hot glass," said the Dutch-trained glassblower, who has been with the U of A's glassblowing shop virtually since its inception in the early 1960s.

"We're working with a strict time factor here," he explains, not looking up from his project as he

speaks. Streefkerk is busy waving a small hand-held torch over a joint he's just applied to the Oneno Extractor the shop is completing for an out-of-province client.

"Unlike metal, you have to work the glass fast while it's still hot," says the unflappable professional—one of only 40 scientific glassblowers in Canada.

But the eyeballing and rapid work doesn't mean there's any lack of precision. Colleague Todd Carter notes that the pieces produced by the U of A's glassblowing shop—tucked away in the basement of the Chemistry building—has to be done to endlessly tight specification.

"This is all high-precision equipment we're working on here and even a tiny fluctuation in volume can have a big impact on the final experiment,"

he explains, noting that something as seemingly innocuous as an over-sharp undulation on a glass fixture can also be detrimental to an experiment's outcome.

The U of A glass shop not only produces all the custom glasswork for all the university laboratories, it is also responsible for everything from simple repairs to customizing glassware purchased from outside suppliers.

Individual projects can take seconds to complete, in the case of a jammed pipette, to a full day's work on some of the more involved components.

The complicated nature of some of the work that goes on in the shop (the elegant glass unit Carter is currently working on has at least 10 separate glass chambers—each formed from a separate glass tube or pipe) means the technicians work in close collaboration with researchers.

While it may seem like a luxury to have a specialty shop on campus, Carter explains that it's actually less expensive for a university the size

of the U of A to maintain a shop rather than try and contract out all the work.

"It's not just the cost of the glassware itself, but also the down time you save when you don't have to wait for out-of-house pieces," he said, adding that the shop can often custom create pieces for less than a researcher would pay from a scientific supply catalog.

The shop is well-stocked given the endless variety of materials they are asked to produce, Carter says as he tours the tightly-packed shop.

He points out the shop's vast collection of raw materials (glass piping and tubing in every conceivable size), five lathes (including Western Canada's largest Quartz-working unit) and complete hot-and-cold glass working areas that include two kilns and a wet-belt sander with a diamond-encrusted belt.

"In the end, the university's top researchers need top technical support," said Carter. "Our shop's grown in proficiency alongside the U of A's chemistry department."



Scientific glass blower Todd Carter employs typical precision used at the U of A's glassblowing shop—tucked away in the basement of the Chemistry building—in creating a delicate rose. The work taken on by the glass blowers needs to meet exact specifications to ensure accuracy in experiments.

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